

## 2. The Commutator [A, B]

### Commutator [A, B]

Having introduced the operators  $\hat{A}$  and  $\hat{B}$  we define the commutator [A, B] as follows:

$$[A, B] = \hat{A}\hat{B} - \hat{B}\hat{A}$$

where  $\hat{A}$  and  $\hat{B}$  are any two operators. The commutator [A, B] is a scalar quantity. It is zero if the operators  $\hat{A}$  and  $\hat{B}$  commute, and non-zero otherwise.

### Properties [A, B]

Property 1: The commutator of two operators  $\hat{A}$  and  $\hat{B}$  is anti-symmetric. That is,  $[A, B] = -[B, A]$ .

Property 2: The commutator of two operators  $\hat{A}$  and  $\hat{B}$  is linear. That is,  $[A, B + C] = [A, B] + [A, C]$  and  $[A + B, C] = [A, C] + [B, C]$ .

Property 3: The commutator of two operators  $\hat{A}$  and  $\hat{B}$  is a scalar quantity.

Property 4: The commutator of two operators  $\hat{A}$  and  $\hat{B}$  is a scalar quantity. It is zero if the operators  $\hat{A}$  and  $\hat{B}$  commute, and non-zero otherwise.

Property 5: The commutator of two operators  $\hat{A}$  and  $\hat{B}$  is a scalar quantity. It is zero if the operators  $\hat{A}$  and  $\hat{B}$  commute, and non-zero otherwise.

Property 6: The commutator of two operators  $\hat{A}$  and  $\hat{B}$  is a scalar quantity. It is zero if the operators  $\hat{A}$  and  $\hat{B}$  commute, and non-zero otherwise.

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The commutator [A, B] is a scalar quantity. It is zero if the operators  $\hat{A}$  and  $\hat{B}$  commute, and non-zero otherwise. It is a measure of the non-commutativity of the operators  $\hat{A}$  and  $\hat{B}$ .

Property 8: The commutator [A, B] is a scalar quantity.

Property 9: The commutator [A, B] is a scalar quantity.

Property 10: The commutator [A, B] is a scalar quantity.

Property 11: The commutator [A, B] is a scalar quantity.

Property 12: The commutator [A, B] is a scalar quantity.

Property 13: The commutator [A, B] is a scalar quantity.

Property 14: The commutator [A, B] is a scalar quantity.

Property 15: The commutator [A, B] is a scalar quantity.

Property 16: The commutator [A, B] is a scalar quantity.

Property 17: The commutator [A, B] is a scalar quantity.

Property 18: The commutator [A, B] is a scalar quantity.

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**BM King**



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